

ABSTRACT

- Reinforced, laminated, impregnated, and materials with composite properties as
- 5 cross linked polyvinyl alcohol hydrogel structures in bulk or cellular matrix forms that can take essentially any physical shape, or can have essentially any size, degree of porosity and surface texture. They have a wide range of physical properties, unusual and unique combinations of physical properties and unique responses to stress fields, which allows for their use in many end use applications.